RAW SEQUENCE LISTING DATE: 10/12/2001
PATENT APPLICATION: US/09/834,760 TIME: 12:10:57

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<110> APPLICANT: Austin, Richard C
Chan, Anthony K.C.
Berry, Leslie
Hamilton Civic Hospitals Research Development Inc.
<120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITING THROMBIN GENERATION AT THE SURFACE OF CELLS
<130> FILE REFERENCE: 019874-000410US
<140> CURRENT APPLICATION NUMBER: US 09/834,760
<141> CURRENT FILING DATE: 2001-04-12
<150> PRIOR APPLICATION NUMBER: US 60/197,146
<151> PRIOR FILING DATE: 2000-04-14
<160> NUMBER OF SEQ ID NOS: 5
<170> SOFTWARE: PatentIn Ver. 2.1
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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
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<220> FEATURE:
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1 5 10 15
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74 Ile Asp Leu Gly Thr Thr Tyr Ser Cys Val Gly Val Phe Lys Asn Gly
75          35                  40                  45
77 Arg Val Glu Ile Ile Ala Asn Asp Gln Gly Asn Arg Ile Thr Pro Ser
78      50                  55                  60
80 Tyr Val Ala Phe Thr Pro Glu Gly Glu Arg Leu Ile Gly Asp Ala Ala
81  65                  70                  75                  80
83 Lys Asn Gln Leu Thr Ser Asn Pro Glu Asn Thr Val Phe Asp Ala Lys
84                  85                  90                  95
86 Arg Leu Ile Gly Arg Thr Trp Asn Asp Pro Ser Val Gln Gln Asp Ile
87              100                 105                 110
89 Lys Phe Leu Pro Phe Lys Val Val Glu Lys Lys Thr Lys Pro Tyr Ile
90          115                 120                 125
92 Gln Val Asp Ile Gly Gly Gly Gln Thr Lys Thr Phe Ala Pro Glu Glu
93      130                 135                 140
95 Ile Ser Ala Met Val Leu Thr Lys Met Lys Glu Thr Ala Glu Ala Tyr
96 145                 150                 155                 160
98 Leu Gly Lys Lys Val Thr His Ala Val Val Thr Val Pro Ala Tyr Phe
99                  165                 170                 175
101 Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Thr Ile Ala Gly
102             180                 185                 190
104 Leu Asn Val Met Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala Ile Ala
105         195                 200                 205
107 Tyr Gly Leu Asp Lys Arg Glu Gly Glu Lys Asn Ile Leu Val Phe Asp
108     210                 215                 220
110 Leu Gly Gly Gly Thr Phe Asp Val Ser Leu Leu Thr Ile Asp Asn Gly
111 225                 230                 235                 240
113 Val Phe Glu Val Val Ala Thr Asn Gly Asp Thr His Leu Gly Gly Glu
114                 245                 250                 255
116 Asp Phe Asp Gln Arg Val Met Glu His Phe Ile Lys Leu Tyr Lys Lys
117             260                 265                 270
119 Lys Thr Gly Lys Asp Val Arg Lys Asp Asn Arg Ala Val Gln Lys Leu
120         275                 280                 285
122 Arg Arg Glu Val Glu Lys Ala Lys Arg Ala Leu Ser Ser Gln His Gln
123     290                 295                 300
125 Ala Arg Ile Glu Ile Glu Ser Phe Tyr Glu Gly Glu Asp Phe Ser Glu
126 305                 310                 315                 320
128 Thr Leu Thr Arg Ala Lys Phe Glu Glu Leu Asn Met Asp Leu Phe Arg
129                 325                 330                 335
131 Ser Thr Met Lys Pro Val Gln Lys Val Leu Glu Asp Ser Asp Leu Lys
132             340                 345                 350
134 Lys Ser Asp Ile Asp Glu Ile Val Leu Val Gly Gly Ser Thr Arg Ile
135         355                 360                 365
137 Pro Lys Ile Gln Gln Leu Val Lys Glu Phe Phe Asn Gly Lys Glu Pro
138     370                 375                 380
140 Ser Arg Gly Ile Asn Pro Asp Glu Ala Val Ala Tyr Gly Ala Ala Val
141 385                 390                 395                 400
143 Gln Ala Gly Val Leu Ser Gly Asp Gln Asp Thr Gly Asp Leu Val Leu
144                 405                 410                 415
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147             420                 425                 430
149 Met Thr Lys Leu Ile Pro Arg Asn Thr Val Val Pro Thr Lys Lys Ser
150         435                 440                 445
152 Gln Ile Phe Ser Thr Ala Ser Asp Asn Gln Pro Thr Val Thr Ile Lys
153     450                 455                 460
155 Val Tyr Glu Gly Glu Arg Pro Leu Thr Lys Asp Asn His Leu Leu Gly
156 465                 470                 475                 480
158 Thr Phe Asp Leu Thr Gly Ile Pro Pro Ala Pro Arg Gly Val Pro Gln
159                 485                 490                 495
161 Ile Glu Val Thr Phe Glu Ile Asp Val Asn Gly Ile Leu Arg Val Thr
162             500                 505                 510
164 Ala Glu Asp Lys Gly Thr Gly Asn Lys Asn Lys Ile Thr Ile Thr Asn
165         515                 520                 525
167 Asp Gln Asn Arg Leu Thr Pro Glu Glu Ile Glu Arg Met Val Asn Asp
168     530                 535                 540
170 Ala Glu Lys Phe Ala Glu Glu Asp Lys Lys Leu Lys Glu Arg Ile Asp
171 545                 550                 555                 560
173 Thr Arg Asn Glu Leu Glu Ser Tyr Ala Tyr Ser Leu Lys Asn Gln Ile
174                 565                 570                 575
176 Gly Asp Lys Glu Lys Leu Gly Gly Lys Leu Ser Ser Glu Asp Lys Glu
177             580                 585                 590
179 Thr Met Glu Lys Ala Val Glu Glu Lys Ile Glu Trp Leu Glu Ser His
180         595                 600                 605
182 Gln Asp Ala Asp Ile Glu Asp Phe Lys Ala Lys Lys Lys Glu Leu Glu
183     610                 615                 620
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186 625                 630                 635                 640
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189                 645                 650
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195 <213> ORGANISM: Homo sapiens
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198 <223> OTHER INFORMATION: Human GRP78/BiP mRNA sequence
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203 gaccacctac tcctgcgtcg gcgtgttcaa gaacggccgc gtggagatca tcgccaacga 180
204 tcagggcaac cgcatcacgc cgtcctatgt cgccttcact cctgaagggg aacgtctgat 240
205 tggcgatgcc gccaagaacc agctcacctc caaccccgag aacacggtct ttgacgccaa 300
206 gcggctcatc ggccgcacgt ggaatgaccc gtctgtgcag caggacatca agttcttgcc 360
207 gttcaaggtg gttgaaaaga aaactaaacc atacattcaa gttgatattg gaggtgggca 420
208 aacaaagaca tttgctcctg aagaaatttc tgccatggtt ctcactaaaa tgaaagaaac 480
209 cgctgaggct tatttgggaa agaaggttac ccatgcagtt gttactgtac cagcctattt 540
210 taatgatgcc caacgccaag caaccaaaga cgctggaact attgctggcc taaatgttat 600
211 gaggatcatc aacgagccta cggcagctgc tattgcttat ggcctggata agagggaggg 660
212 ggagaagaac atcctggtgt ttgacctggg tggcggaacc ttcgatgtgt ctcttctcac 720
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213 cattgacaat ggtgtcttcg aagttgtggc cactaatgga gatactcatc tgggtggaga 780
214 agactttgac cagcgtgtca tggaacactt catcaaactg tacaaaaaga agacgggcaa 840
215 agatgtcagg aaagacaata gagctgtgca gaaactccgg cgcgaggtag aaaaggccaa 900
216 acgggccctg tcttctcagc atcaagcaag aattgaaatt gagtccttct atgaaggaga 960
217 agacttttct gagaccctga ctcgggccaa atttgaagag ctcaacatgg atctgttccg 1020
218 gtctactatg aagcccgtcc agaaagtgtt ggaagattct gatttgaaga agtctgatat 1080
219 tgatgaaatt gttcttgttg gtggctcgac tcgaattcca aagattcagc aactggttaa 1140
220 agagttcttc aatggcaagg aaccatcccg tggcataaac ccagatgaag ctgtagcgta 1200
221 tggtgctgct gtccaggctg gtgtgctctc tggtgatcaa gatacaggtg acctggtact 1260
222 gcttgatgta tgtcccctta cacttggtat tgaaactgtg ggaggtgtca tgaccaaact 1320
223 gattccaagg aacacagtgg tgcctaccaa gaagtctcag atcttttcta cagcttctga 1380
224 taatcaacca actgttacaa tcaaggtcta tgaaggtgaa agacccctga caaaagacaa 1440
225 tcatcttctg ggtacatttg atctgactgg aattcctcct gctcctcgtg gggtcccaca 1500
226 gattgaagtc acctttgaga tagatgtgaa tggtattctt cgagtgacag ctgaagacaa 1560
227 gggtacaggg aacaaaaata agatcacaat caccaatgac cagaatcgcc tgacacctga 1620
228 agaaatcgaa aggatggtta atgatgctga gaagtttgct gaggaagaca aaaagctcaa 1680
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VERIFICATION SUMMARY DATE: 10/12/2001
PATENT APPLICATION: US/09/834,760 TIME: 12:10:58

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